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APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/009,324	03/21/200	Ian David Lewis	367.40909X00	6967		
20457	7590 03/	2005	EXAM	EXAMINER SHANKAR, VIJAY		
		JT & KRAUS, LLP	SHANKA			
SUITE 180	ΓΗ SEVENTEENT 0	SIREEI	ART UNIT	PAPER NUMBER		
ARLINGT	ON, VA 22209-3	3	2673			
			DATE MAILED: 03/22/200	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)			
	10/009,324		LEWIS, IAN DAVID			
Office Action Summary	Examiner					
	VIJAY SHA	NKAR	2673			
The MAILING DATE of this communication Period for Reply	appears on the	cover sheet with the d	correspondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st. Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no even reply within the statute riod will apply and will atute, cause the applic	t, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).	ly. ommunication,		
Status	•					
1) Responsive to communication(s) filed on <u>1</u> 2a) This action is FINAL . 2b) □	<u>1-3-05</u> . This action is no	n-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice und						
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the applicat	ion					
4a) Of the above claim(s) <u>9,10 and 20-27</u> is		rom consideration				
5) Claim(s) is/are allowed.	are williarawii i	Tom consideration.				
6)⊠ Claim(s) <u>1-8,11-19 and 28</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction an	id/or election red	uirement.				
Application Papers						
_	. • .			•		
9) The specification is objected to by the Exam		1 - 6: 4 - 4 4 - 6 - 76 - 7	=			
10) The drawing(s) filed on is/are: a) a						
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the cor						
11) The oath or declaration is objected to by the	Examiner. Note	e the attached Office	Action or form P	ГО-152.		
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	eign priority unde	er 35 U.S.C. § 119(a))-(d) or (f).			
1. Certified copies of the priority docum	ents have been	received.				
2. Certified copies of the priority docum			on No	•		
3. Copies of the certified copies of the p				Stage		
application from the International Bur				-1ge		
* See the attached detailed Office action for a			ed.			
		.*				
Attachment(s)						
1) Notice of References Cited (PTO-892)	A) Interview Summary	(PTO_413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ite			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date 	•	i)	atent Application (PTC	D-152)		
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	e Action Summary	Pa	rt of Paper No./Mail D	ate 20050316		

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because the abstract should be limited to a single paragraph on a separate sheet. Correction is required. See MPEP § 608.01(b).

Claim Objections

4. Claims 11, 12, 14, are objected to because of the following informalities:

Claims 11,12,14 depends on cancelled claim 9.. Appropriate correction is required.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-8, 11-19 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Usui et al (5,347,294).

Regarding Claim 1, Usui et al teaches a display device comprising: a liquid crystal display (LCD) comprising first and second liquid crystal cells positioned along a first axis of the display device (Col.2, line 2-13); a first display driver (23 in fig.8) for driving the first liquid crystal cell in a first direction and in a second direction (Fig.8, Column 8, line 42- col.10, line 40; Figs.12,15; Col.15, line 20- col.16, line 50); a second display driver (24 in fig.8) for driving the second liquid crystal cell in a first direction and in a second direction (Fig.8, Column 8, line 42- col.10, line 40; Figs.12,15; Col.15, line 20- col.16, line 50); and means for synchronizing the first and second display drivers (Fig.8, Col.8, line 55- col.9, line 17); and wherein the first and second display drivers are positioned at opposed sides of the LCD. (Fig.8; Col.8, line 42-54; Figs.12,15; Col.15, line 20- col.16, line 50).

Regarding Claim 2, Usui et al teaches a display device wherein the first and second display drivers are positioned at opposed sides of the LCD along the first axis of the display device. (Fig.8; Col.8, line 42-54).

Regarding Claims 3-4, Usui et al teaches a display device wherein the first axis extends in the direction of the height of the LCD; and the first axis extends in the direction of the width of the LCD. (Col.1, line 25- col.2, line 16).

Regarding Claims 5-8, Usui et al teaches a display device wherein the LCD is substantially symmetrical about a bisector; the bisector is the first axis; and the bisector is a second axis perpendicular to the first (Fig.3; Col.4, line 31-col.5, line 31).

Regarding Claim 11, Usui et al teaches a display arrangement wherein the intermediate element interconnects the first and second drivers for synchronization. (Fig.8, Col.8, line 55- col.9, line 17).

Regarding Claims 12,13, Usui et al teaches a display arrangement wherein the intermediate element is flexible and a flexible printed circuit (FPC) foil. (Figs. 3,8; Col.4, lines 31-58).

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Regarding Claim 14, Usui et al teaches a display arrangement wherein the intermediate display element comprises display device power control circuitry which is same as voltage selector (92 and 93 in fig.8). (Fig.8; Col.9, lines 1-17).

Regarding Claim 15, Usui et al teaches a display arrangement wherein the display device further comprises first and second flexible driver supports for supporting the respective first and second drivers (Figs. 3,8; Col.4, lines 31-58; Col.8, line 42-54).

Regarding Claims 16-17, Usui et al teaches a display arrangement wherein the flexible driver supports flex to contact the LCD and the intermediate element; and the flexible driver supports are FPC foils. (Figs. 3,8; Col.4, lines 31-58; Col.8, line 42-54).

Regarding Claims 18-19, Usui et al teaches a display module and a portable device comprising a display device. (Figs. 1,3,8; Col.3, lines 25-32).

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Regarding Claim 28, Usui et al teaches a display device comprising: a liquid crystal display (LCD) comprising first and second liquid crystal cells positioned along a first axis of the display device (Col.2, line 2-13), a first display driver (23 in fig.8) for driving the first liquid crystal cell in a first direction and in a second direction (Fig.8, Column 8, line 42- col.10, line 40; Figs.12,15; Col.15, line 20- col.16, line 50); a second display driver (24 in fig.8) for driving the second liquid crystal cell in a first direction and in a second direction (Fig.8, Column 8, line 42-col.10, line 40; Figs.12,15; Col.15, line 20- col.16, line 50); and means for synchronizing the first and second display drivers (Fig.8, Col.8, line 55- col.9, line 17); a connector for connecting display device circuitry to an external element (51 in fig.8), and an intermediate element (23 and 24 in fig.8) for interfacing the display device and the connector (Fig.8; Col.8, line 42- col.9, line 65); wherein the first and second display drivers are positioned at opposed sides of the LCD and the intermediate element is located substantially behind the LCD. (Fig.8; Col.8, line 42- col.9, line 65; Figs.12,15; Col.15, line 20- col.16, line 50).

7. Applicant's arguments with respect to Claims 1-8, 11-19, and 28 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kubota et al, Asada et al, and Firester et al all teach the LCD.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VIJAY SHANKAR whose telephone number is 703-305-4763. The examiner can normally be reached on M-F 7:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BIPIN SHALWALA can be reached on 703-305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VIJAY SHANKAR Primary Examiner Art Unit 2673